

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/03165

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N21/90 21/958

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 5 637 864 A (NICKS TIMOTHY J ET AL) 10 June 1997 (1997-06-10) column 2, line 48 -column 3, line 39; figures 1-3	1,5 4,8
Y A	EP 1 118 854 A (OWENS BROCKWAY GLASS CONTAINER) 25 July 2001 (2001-07-25) column 1, line 3 - line 6 column 5, line 33 -column 6, line 47; claim 1; figures 1-4	1,5 2,3,6,7
Y A	US 6 369 889 B1 (OLSCHEWSKI DIETER) 9 April 2002 (2002-04-09) column 2, line 41 - line 62 column 5, line 28 -column 6, line 34; figures 1-3	1,5 4,8

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

2 March 2004

Date of mailing of the international search report

17/03/2004

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PCT/EP 03/03165

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 584 469 A (LOVALENTI SAM) 22 April 1986 (1986-04-22) column 4, line 58 -column 5, line 39; figures 1-3 ---	1,5
A	US 5 258 611 A (LESER JACQUES) 2 November 1993 (1993-11-02) column 4, line 26 -column 5, line 4; figure 4 -----	1,5

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 03/03165

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5637864	A	10-06-1997	NONE	
EP 1118854	A	25-07-2001	US 6256095 B1 AU 1637301 A BR 0100136 A CA 2330793 A1 CN 1312464 A CZ 20010259 A3 EE 200100036 A EP 1118854 A1 HU 0100133 A2 JP 2001228093 A PL 345235 A1 ZA 200100480 A	03-07-2001 26-07-2001 16-10-2001 21-07-2001 12-09-2001 12-09-2001 15-10-2001 25-07-2001 28-01-2002 24-08-2001 30-07-2001 30-07-2001
US 6369889	B1	09-04-2002	DE 19651924 A1 AT 205596 T DE 59704618 D1 EP 0944822 A1 WO 9826278 A1 DE 29721739 U1 DE 29724375 U1	18-06-1998 15-09-2001 18-10-2001 29-09-1999 18-06-1998 16-04-1998 01-03-2001
US 4584469	A	22-04-1986	AU 543896 B2 AU 2068883 A BR 8307273 A CA 1199705 A1 DE 3347472 A1 ES 8500445 A1 FI 834851 A ,B, FR 2538904 A1 GB 2133538 A ,B GR 79155 A1 IT 1169385 B JP 1635473 C JP 2048859 B JP 59136640 A MX 154872 A NL 8303860 A ,B, ZA 8308351 A	09-05-1985 05-07-1984 07-08-1984 21-01-1986 12-07-1984 01-01-1985 01-07-1984 06-07-1984 25-07-1984 02-10-1984 27-05-1987 20-01-1992 26-10-1990 06-08-1984 23-12-1987 16-07-1984 27-06-1984
US 5258611	A	02-11-1993	FR 2681133 A1 EP 0533534 A1 ES 2082408 T3	12-03-1993 24-03-1993 16-03-1996